

Reference ✓

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Document ID: JP 58149060 A JP
89038302 B,

Relevance Rank: 99

Entry 1 of 1

File:DERWENT

June 2, 1999

DERWENT-ACC-NO: 1983-786559

DERWENT-WEEK: 198341

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TITLE:

Electrophotographic toner - comprising resin mixt. contg. norbornene type
polymer as binder

PATENT-ASSIGNEE: NIPPON ZEON KK[JAPG]

PRIORITY-DATA: 1982JP-0032934 (March 2, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 58149060 A</u>	September 5, 1983	N/A	005	N/A
JP 89038302 B	August 14, 1989	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP58149060A	N/A	1982JP-0032934	March 2, 1982

IPC: G03G009/08

ABSTRACTED-PUB-NO:JP58149060A

BASIC-ABSTRACT:Electrophotographic toner contains resin mixt. contg. (A) norbornene series polymer as the binder resin. Pref. polymer (A) is that produced from alkyl-5-bicyclo-(2,2,1)heptene-2 series monomer, e.g., methyl-5-bicyclo(2,2,1) heptene-2, alkoxy-5-bicyclo(2,2,1) heptene-2 series monomer, e.g., ethoxy-5-bicyclo(2,2,1)heptene-2, bicyclo(2,2,1)heptene-2-5-carboxylic acid ester series monomer, etc. Polymer (A) is that having wt. average mol. wt. of 1,000-5,000,000, pref. 500,000-2,000,000 with a view to anti-offsetting properties. Content of (A) is at least 0.1, pref. 3-50 wt% in the total amt. of the resin. The toner is effectively fixed by a heating roller without causing offsetting even when a fixed roller is not fed a releasing soln. The toner has excellent grinding properties and dispersing properties and provides sharp image.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS:

ELECTROPHOTOGRAPHIC TONER COMPRISE RESIN MIXTURE CONTAIN NORBORNENE TYPE
POLYMER BIND

DERWENT-CLASS: A89 G08 P84

CPI-CODES: A04-G; A07-A02; A07-A04; A12-L05C; G06-G05;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1983-098688

Non-CPI Secondary Accession Numbers: N1983-180948

Full	Citation	Review	Classification	Date	Reference
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Term	Documents
jp-58149060-\$.did	1

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Main Menu Search Form Posting Counts Show WS Numbers Edit WS Numbers**Search Results - Record(s) 1 through 1 of 1 returned.**1. Document ID: JP 02184864 A,

Relevance Rank: 99

Entry 1 of 1. File:DERWENT June 2, 1999

DERWENT-ACC-NO: 1990-264534

DERWENT-WEEK: 199035

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TITLE:

Developer for electrostatic photography - includes cyclopentadiene polymer and gives image having increased density

PATENT-ASSIGNEE: RICOH KK[RICO]

PRIORITY-DATA: 1989JP-0005506 (January 12, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 02184864 A</u>	July 19, 1990	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP02184864A	N/A	1989JP-0005506	January 12, 1989

IPC: G03G009/08

ABSTRACTED-PUB-NO:JP02184864A

BASIC-ABSTRACT: The developer includes at least a cyclopentadiene polymer. The cyclopentadiene polymer is a copolymer of the polymer or monomer of dicarboxy diallyl tricyclo(5,2,1,026) decane, dicarboxy diallyldimethyl tricyclo(5,2,1026)decane, or dicarboxyl diallylpentacyclo(6,5,1,136,027,0913) penta decane, an an other monomer Specifically the developer is liq. or dry developer. To obtain the liq. developer, 0.1-20 wt. pts. cyclopentadiene polymer to 1 wt. pt. pigment, is dispersed with 10-100 wt. pts. dispersion medium by a ball mill, etc., and the obt'd. enriched toner is diluted by carrier liq. To obtain the dry toner, 0.1-20 wt. pts. wt. 1 wt. pt. colouring agent, of cyclopentadiene resin is kneaded by a heat roller, ground and classified. USE/ADVANTAGE - Density of the image is increased, and a toner having good resolving power and fixing property is obt'd. Partic. by using C black as pigment, the blackness is improved.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS:

DEVELOP ELECTROSTATIC PHOTOGRAPH CYCLOPENTADIENE POLYMER IMAGE INCREASE
DENSITY

DERWENT-CLASS: A12 A89 G08 P84 S06

CPI-CODES: A04-B; A12-L05C2; G06-G05;

EPI-CODES: S06-A04C1; S06-A04C2;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0037 0231 1212 1213 1214 2326 2330 2333 2375 2501 2542 2808

Multipunch Codes: 014 034 04- 075 134 27& 368 386 392 393 394 395 397 423
479 658 659 688 725 726

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-114432

Non-CPI Secondary Accession Numbers: N1990-204624

Full	Citation	Review	Classification	Date	Reference
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 AN 1983:603584 CAPLUS
 DN 99:203584
 TI Toners for electrophotography
 PA Nippon Zeon Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC G03G009-08
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 58149060	A2	19830905	JP 82-32934	19820302 <--
	JP 01038302	B4	19890814		

AB Toners for electrophotog. use mixts. contg. a norbornene-type polymer as
 adhesive resin. The use of these toners eliminates the so-called offset
 phenomena caused by the adhesion of toners to the fixing roller, even

when

releasing soln. is not supplied. Thus, a toner was prepd. by mixing
 polystyrene resin 70, carbon black, polynorbornene 30, and a
 charge-controlling agent 2 parts. The developer composed of the toner

(10

parts) and Fe powder (90 parts) showed absence of offset phenomena during
 its use in electrophotog. copying.

ST electrophotog toner effect offset free

IT Photography, electro-, developers

(toners, offset-free, contg. polystyrene and polynorbornene)

IT 9003-53-6 25038-76-0

RL: USES (Uses)

(in offset-free electrophotog. toners)